

FCC PART 15 B TEST REPORT

For

CLC HONG KONG LIMITED

1011A, 10/F., Harbour Centre Tower 1, No. 1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2AG4WB106

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Test Engineer:	Lorin Biar	n	Lorin Dian
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Reviewed By:	Henry Dir		Henry Ding
Reviewed by.			
Test Laboratory:	5040, Hui JinNiu Dis	iLongWan Plaz strict, ChengDi 35523123, Fax	aboratories Corp. (Chengdu) za, No. 1, ShaWan Road, u, China :: 028-65525125

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *CLC HONG KONG LIMITED*'s product, model number: B106 (FCC ID: 2AG4WB106) (the "EUT") in this report was a *Play*, which was measured approximately: 11.6 cm (L) × 7.3 cm (W) × 1.05 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V from adapter. The highest operation frequency is 2480 MHz.

Adapter information:

Model: PM03

Input: 100-240V~50/60Hz 0.15A

Output: DC 5.0V, 500mA

*All measurement and test data in this report was gathered from final production sample, serial number: 161207009 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2016-12-07, and EUT conformed to test requirement.

Objective

This test report is prepared on behalf of *CLC HONG KONG LIMITED* in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B

Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: 2AG4WB106. FCC Part 22H, 24E PCE submissions with FCC ID: 2AG4WB106.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The uncertainty conducted disturbance at mains port is ±3.17 dB, the uncertainty of any radiation on emissions measurement is:

30M~200MHz: ±4.7 dB; 200M~1GHz: ±6.0 dB; 1G-6GHz:: ±5.13dB; 6G~25GHz: ±5.47dB;

And the uncertainty will not be taken into consideration for all test data recorded in the report.

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Test Facility

The test site used by BACL to collect test data is located in the 5040, HuiLongWan Plaza, No. 1, ShaWan Road, JinNiu District, ChengDu, China.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

The software "winthrax.exe" was used during test.

Equipment Modifications

No modification was made to the EUT tested.

Local Support Equipment List and Details

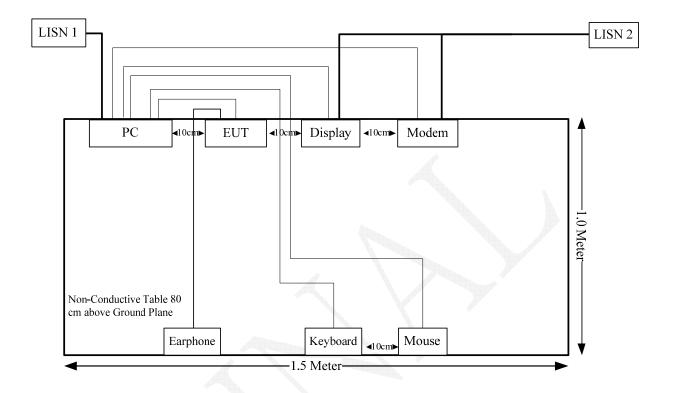
Manufacturer	Description	Model	Serial Number
IBM	PC	8176	99Y7315
DELL	Display	E157FPC	060229-11
ANTER	Modem	EGW802	0508350054-1B
Lenovo	Keyboard	KB-US19EB	IMHYX011071016460
Lenovo	Mouse	MO-5013U	IMJS011041409259

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m) From Port		То
Serial Cable	yes	No	1.6	Serial Port of PC	Modem
Mouse Cable	yes	No	1.4	Parallel Port of PC	Mouse
Keyboard Cable	yes	No	1.3	USB Port of PC	Keyboard
Earphone Cable	no	No	1.2	Audio Port of EUT	Earphone
VGA Cable	yes	yes	1.2	VGA port of PC	Display
USB Cable	Yes	No	1.2	USB Port of PC	EUT

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Configuration of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

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FCC§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- -compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

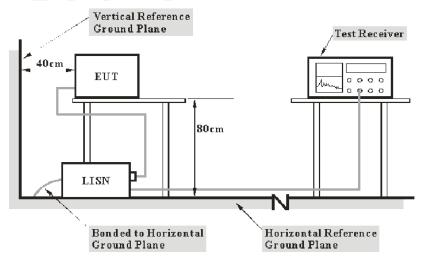
- -compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} U_{cispr}$), exceeds the disturbance limit.

Based on CISPR 16-4-2:2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Chengdu) is ± 3.17 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U cispr
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The PC was connected to a 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W		
150 kHz – 30 MHz	9 kHz		

Test Equipment List and Details

		day A	W. ASP	Alle and the second sec	
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2016-12-02	2017-12-01
Rohde & Schwarz	L.I.S.N.	ENV216	3560.6550.06	2016-12-02	2017-12-01
Rohde & Schwarz	PULSE LIMITER	ESH3Z2	357.8810.52	2016-10-31	2017-10-30
N/A	Conducted Cable	NO.5	N/A	2016-11-10	2017-11-09
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

^{*} **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

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Bay Area Compliance Laboratories Corp. (Chengdu)

Herein,

V_C: corrected voltage amplitude

V_R: reading voltage amplitude

A_c: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

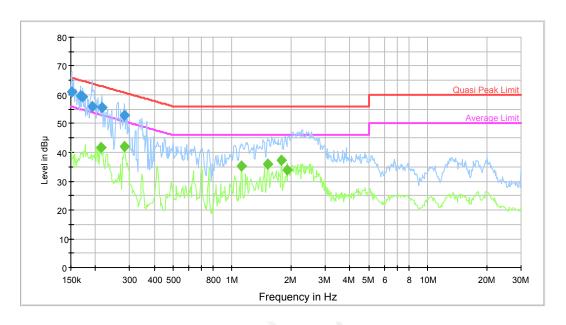
Temperature:	25 °C	
Relative Humidity:	54 %	
ATM Pressure:	99.8 kPa	

The testing was performed by Lorin Bian on 2016-12-24.

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Test Mode: Downloading

AC120V, 60Hz, Line:

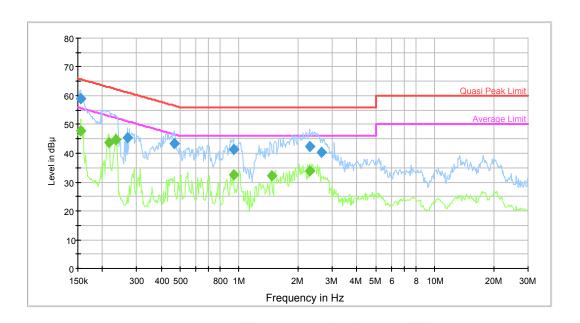


		4010101010101					
Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.151200	61.1	9.000	L1	19.7	4.8	65.9	Compliance
0.167702	59.8	9.000	L1	19.7	5.3	65.1	Compliance
0.171759	59.3	9.000	L1	19.7	5.6	64.9	Compliance
0.192030	55.9	9.000	L1	19.6	8.0	63.9	Compliance
0.216409	55.6	9.000	L1	19.6	7.4	63.0	Compliance
0.281497	52.9	9.000	L1	19.6	7.9	60.8	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.212988	41.8	9.000	L1	19.6	11.3	53.1	Compliance
0.281497	42.1	9.000	L1	19.6	8.7	50.8	Compliance
1.117238	35.4	9.000	L1	19.6	10.6	46.0	Compliance
1.524426	36.1	9.000	L1	19.7	9.9	46.0	Compliance
1.787792	37.3	9.000	L1	19.7	8.7	46.0	Compliance
1.905466	33.9	9.000	L1	19.7	12.1	46.0	Compliance

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AC120V, 60Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.154858	59.1	9.000	N	19.7	6.6	65.7	Compliance
0.268355	45.4	9.000	N	19.7	15.8	61.2	Compliance
0.468757	43.5	9.000	N	19.7	13.0	56.5	Compliance
0.937592	41.4	9.000	N	19.7	14.6	56.0	Compliance
2.288725	42.5	9.000	N	19.7	13.5	56.0	Compliance
2.641698	40.3	9.000	N	19.7	15.7	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.156097	47.9	9.000	N	19.7	7.8	55.7	Compliance
0.216409	43.7	9.000	N	19.7	9.3	53.0	Compliance
0.234359	44.7	9.000	N	19.7	7.6	52.3	Compliance
0.937592	32.6	9.000	N	19.7	13.4	46.0	Compliance
1.464886	32.2	9.000	N	19.7	13.8	46.0	Compliance
2.288725	33.8	9.000	N	19.7	12.2	46.0	Compliance

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FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 2, then:

- -compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 2, then:

- -compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} U_{cispr}$), exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Chengdu) is:

30M~200MHz: ±4.7 dB; 200M~1GHz: ±6.0 dB; 1G~6GHz: ±5.13dB; 6G~25GHz: ±5.47 dB;

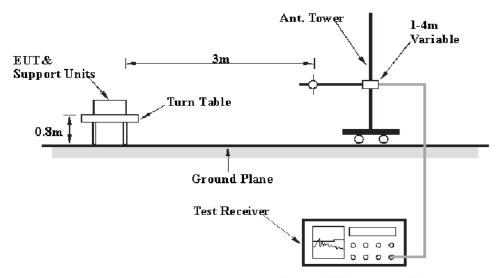
Table 2 – Values of U_{cispr}

Measurement					
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1000 MHz)	6.3 dB			
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB			
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5 dB			

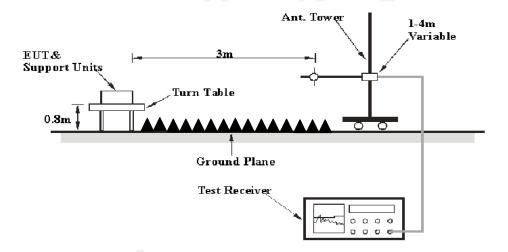
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EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed at the 3 meters distance in chamber, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

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EMI Test Receiver Setup

The system was investigated from 30 MHz to 13.0 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector	
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP	
Above 1 GHz	1 MHz	3 MHz	1	Peak	
Above i Gnz	1 MHz	10 Hz	/	AVG	

Test Procedure

During the radiated emissions, the adapter of laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

Manufacturer	Manufacturer Description		Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Sunol Sciences Broadband Antenna		A101808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
EM TEST	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
EMCT	Semi-Anechoic Chamber	966	N/A	2015-04-24	2018-04-23
N/A	RF Cable (below 1GHz)	NO.1	N/A	2016-11-10	2017-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2016-11-10	2017-11-09
N/A RF Cable (above 1GHz)		NO.2	N/A	2016-11-10	2017-11-09
WEINSCHEL ENGINEERING	Attenuator	1A10dB	AA4135	2016-11-10	2017-11-09

^{*} **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

Temperature:	23.7 °C		
Relative Humidity:	51 %		
ATM Pressure:	101.5 kPa		

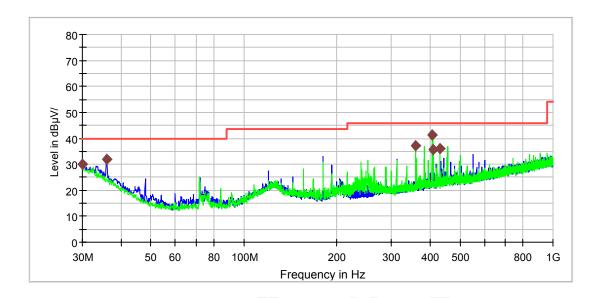
^{*} The testing was performed by Lorin Bian on 2016-12-24.

Test Result: Compliance

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Test Mode: Downloading

30MHz-1GHz:



Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
30.000000	30.0	100.0	V	117.0	1.3	10.0	40.0
35.941250	32.1	100.0	V	90.0	-2.9	7.9	40.0
359.921250	37.2	100.0	Н	118.0	-4.2	8.8	46.0
407.936250	41.5	100.0	Н	110.0	-3.8	4.5	46.0
409.027500	35.7	100.0	Н	144.0	-3.7	10.3	46.0
431.943750	36.1	100.0	Н	118.0	-3.4	9.9	46.0

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Bay Area Compliance Laboratories Corp. (Chengdu)

1-13GHz:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
1270.54	46.62	PK	Н	23.50	2.35	26.55	45.92	74.00	28.08
1270.54	34.12	AV	Н	23.50	2.35	26.55	33.42	54.00	20.58
1941.88	45.06	PK	Н	24.81	3.01	26.76	46.12	74.00	27.88
1941.88	32.46	AV	Н	24.81	3.01	26.76	33.52	54.00	20.48
2072.14	45.31	PK	Н	24.65	3.04	26.83	46.17	74.00	27.83
2072.14	31.75	AV	Н	24.65	3.04	26.83	32.61	54.00	21.39
1280.56	49.62	PK	V	23.53	2.37	26.54	48.98	74.00	25.02
1280.56	37.22	AV	V	23.53	2.37	26.54	36.58	54.00	17.42
1400.8	51.25	PK	V	23.84	2.53	26.43	51.19	74.00	22.81
1400.8	38.64	AV	V	23.84	2.53	26.43	38.58	54.00	15.42
1931.86	51.91	PK	V	24.79	3.00	26.75	52.95	74.00	21.05
1931.86	39.25	AV	V	24.79	3.00	26.75	40.29	54.00	13.71

**** END OF REPORT ****

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